

DETAILED ACTION

EXAMINER'S AMENDMENT

I. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas J. Loos on May 26, 2010.

The application has been amended as follows:

Claim 7 should be amended as follows:

7. (Currently Amended) A method of handling calls between a wireless local area network of an enterprise and a cellular carrier network for a mobile terminal that is capable of communicating over the wireless local area network and the cellular carrier network, the method comprising:

registering and emulating the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network within the enterprise;

receiving, via a fixed radio terminal, calls from the cellular carrier network; and

routing, via the fixed radio terminal, the received calls received from the cellular carrier network to the mobile terminal via the wireless local area network, wherein routing the received calls comprises calling a telephone number of the mobile terminal for a call of the received calls involving a party in a given network.

Claim 18 should be amended as follows:

18. (Currently Amended) A system as claimed in claim 17, wherein the gateway is further configured to receive a call placed to the ~~phone~~ telephone number of the cellular carrier network.

Art Unit: 2617

Claim 19 should be amended as follows:

19. (Currently Amended) A system as claimed in claim 18, wherein the gateway is further configured to:

receive parameters of the call placed to the ~~phone~~ telephone number of the cellular carrier network; and

forward the parameters to the mobile terminal.

Claim 23 should be amended as follows:

23. (Currently Amended) A system for managing calls between a wireless local area network and a cellular carrier network, the system comprising:

a mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and

a gateway that registers and emulates the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network, the calls from the cellular carrier network being received via a fixed radio terminal of the gateway, the gateway configured to route calls received from the cellular carrier network to the mobile terminal over the wireless local area network;

wherein the mobile terminal is configured to be assigned a telephone number for the cellular carrier network and a telephone number for a private branch exchange and calls placed to the telephone number of the cellular carrier network are received by the fixed radio terminal of the gateway and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network and calls placed to the telephone number of the private branch exchange are received by the gateway and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network;

wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful; and

wherein if a call is placed to ~~a phone~~ the telephone number of ~~[[a]]~~ the private branch exchange while the mobile terminal is communicating over the cellular carrier network, then the

Art Unit: 2617

gateway calls [[a]] the telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

Claim 35 should be amended as follows:

35. (Currently Amended) The method of claim 34, further comprising:
instructing the mobile terminal to switch a radio to the cellular carrier network based on
[[the]] call parameters.

Claims 37-40 should be amended as follows:

37-40. (Cancelled)

Allowable Subject Matter

II. The following is an examiner's statement of reasons for allowance:

Claim 7 recites a method of handling calls between a wireless local area network of an enterprise and a cellular carrier network for a mobile for a mobile terminal that is capable of communicating over the wireless local area network and the cellular carrier network with steps as defined in the specification (pages 3-7) including registering and emulating the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network within the enterprise; receiving, via a fixed radio terminal, calls from the cellular carrier network; and routing, via the fixed radio terminal, the received calls received from the cellular carrier network to the mobile terminal via the wireless local area network, wherein routing the received calls comprises calling a telephone number of the mobile terminal for a call of the received calls involving a party in a given network.

The prior art teaches a method of handling calls between a wireless local area network of

Art Unit: 2617

an enterprise and a cellular carrier network for a mobile for a mobile terminal that is capable of communicating over the wireless local area network and the cellular carrier network including registering and emulating the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network within the enterprise;

However, applicant's independent claim 7 comprises a method with a particular combination of steps, as recited above, including receiving, via a fixed radio terminal, calls from the cellular carrier network; and routing, via the fixed radio terminal, the received calls received from the cellular carrier network to the mobile terminal via the wireless local area network, wherein routing the received calls comprises calling a telephone number of the mobile terminal for a call of the received calls involving a party in a given network.

This is neither taught nor suggested by the prior art.

Claims 26-33 are allowable based on their dependence on allowable independent claim 7.

Claim 10 recites a system for managing calls between a wireless local area network (wireless LAN) and a cellular carrier network with a structure as defined in the specification (pages 3-7) including a fixed radio terminal configured to communicate with the cellular carrier network and to emulate a mobile terminal on the cellular carrier network; and a gateway configured to: receive a registration message from the mobile terminal via the wireless LAN, register the mobile terminal on the cellular carrier network via the fixed radio terminal, receive a call from the cellular carrier network via the fixed radio terminal, and route the received call to the mobile terminal over the wireless local area network by calling a telephone number of the mobile terminal when the received call involves a party in a given network.

The prior art teaches a system for managing calls between a wireless local area network

Art Unit: 2617

(wireless LAN) and a cellular carrier network including communicating with the cellular carrier network and emulating a mobile terminal on the cellular carrier network; and a gateway configured to receive a registration message from the mobile terminal via the wireless LAN, and register the mobile terminal on the cellular carrier network.

However, applicant's independent claim 7 comprises a system with a particular combination of elements, as recited above, including a fixed radio terminal; and a gateway configured to: register the mobile terminal on the cellular carrier network via the fixed radio terminal, receive a call from the cellular carrier network via the fixed radio terminal, and route the received call to the mobile terminal over the wireless local area network by calling a telephone number of the mobile terminal when the received call involves a party in a given network.

This is neither taught nor suggested by the prior art.

Claims 5-6, 12-22 and 25 are allowable based on their dependence on allowable independent claim 7.

Claim 23 recites a system for managing calls between a wireless local area network and a cellular carrier network with a structure as defined in the specification (pages 3-7) including a mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and a gateway that registers and emulates the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network, the calls from the cellular carrier network being received via a fixed radio terminal of the gateway, the gateway configured to route calls received from the cellular carrier network to

Art Unit: 2617

the mobile terminal over the wireless local area network; wherein the mobile terminal is configured to be assigned a telephone number for the cellular carrier network and a telephone number for a private branch exchange and calls placed to the telephone number of the cellular carrier network are received by the fixed radio terminal of the gateway and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network and calls placed to the telephone number of the private branch exchange are received by the gateway and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network; wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful; and wherein if a call is placed to the telephone number of the private branch exchange while the mobile terminal is communicating over the cellular carrier network, then the gateway calls the telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

The prior art teaches a system for managing calls between a wireless local area network and a cellular carrier network including a mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and a gateway that registers and emulates the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network; wherein the mobile terminal is configured to be assigned a telephone number for the cellular carrier network and a telephone number for a private branch exchange and calls placed to the telephone number of the cellular carrier network are received by the fixed radio terminal of the gateway and routed to the mobile terminal via the

Art Unit: 2617

wireless local area network when the mobile terminal is on the wireless local area network and calls placed to the telephone number of the private branch exchange are received by the gateway and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network; wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful.

However, applicant's independent claim 7 comprises a system with a particular combination of elements, as recited above, including calls from the cellular carrier network being received via a fixed radio terminal of the gateway, the gateway configured to route calls received from the cellular carrier network to the mobile terminal over the wireless local area network; and wherein if a call is placed to the telephone number of the private branch exchange while the mobile terminal is communicating over the cellular carrier network, then the gateway calls the telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

This is neither taught nor suggested by the prior art.

Claim 34 recites a method with steps as defined in the specification (pages 3-7) including registering, at a gateway, a mobile terminal via a wireless local area network (LAN); establishing, at the gateway, a wireless-LAN connection to the mobile terminal via the wireless LAN; establishing, at the gateway, a wireless connection with a cellular carrier network on behalf of the mobile terminal; receiving, at the gateway, a cellular call intended for the mobile terminal from the cellular carrier network and routing the call to the mobile terminal via the

Art Unit: 2617

wireless-LAN connection; receiving, at the gateway, a handoff request from the mobile terminal; and responsive to the handoff request, the gateway: making a second call to a telephone number of the mobile terminal, and receiving the second call on behalf of the mobile terminal.

The prior art teaches a method including registering, at a gateway, a mobile terminal via a wireless local area network (LAN); establishing, at the gateway, a wireless-LAN connection to the mobile terminal via the wireless LAN; establishing, at the gateway, a wireless connection with a cellular carrier network on behalf of the mobile terminal.

However, applicant's independent claim 34 comprises a method with a particular combination of steps, as recited above, including receiving, at the gateway, a cellular call intended for the mobile terminal from the cellular carrier network and routing the call to the mobile terminal via the wireless-LAN connection; receiving, at the gateway, a handoff request from the mobile terminal; and responsive to the handoff request, the gateway: making a second call to a telephone number of the mobile terminal, and receiving the second call on behalf of the mobile terminal.

This is neither taught nor suggested by the prior art.

Claims 35-36 are allowable based on their dependence on allowable independent claim 34.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

III. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRANDON J. MILLER whose telephone number is (571)272-7869. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

/Brandon J Miller/
Examiner, Art Unit 2617

May 28, 2010